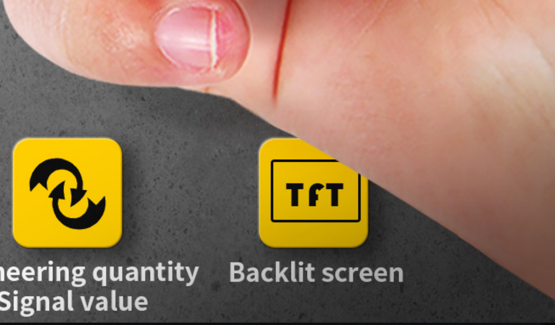
FNIRSI

MINI SIZE
PRECISE MEASUREMENT

/SIGNAL GENERATOR/

RUN
SG-004A
COM OUT IN-/24V IN+
Signal PORT
83
T:00:09:30
25°C
mA
Range:
-0024.9
Current Input :
00.007
Current Output :
00.000
mA
OFF
Range: 0000.0
00:00:00/00:01:00
PRESET
CURVE
ON/OFF
AUTO
CONVERT
IN
OUT
FN
FNIRSI



Mini

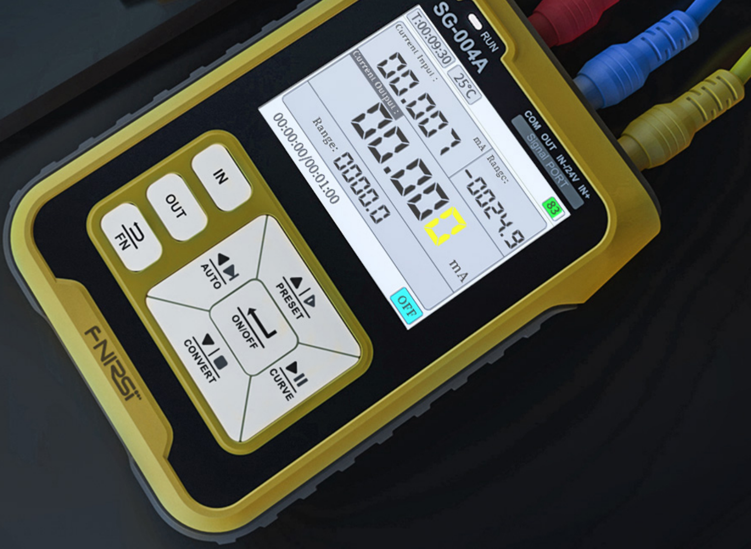
≤0.2% error

Engineering quantity /Signal value

Backlit screen

HD DISPLAY
ADJUSTABLE BACKLIGHT

/ Backlight: Different Modes~Different Colors /


SG-004A
RUN
T:00:09:30
25°C
Current Input :
00.007 mA
Range:
-0024.9
Current Output :
00.000 mA
Range: 0000.0
00:00:00/00:01:00
OFF
83
COM
OUT
IN-/24V
IN+
Signal PORT
IN
OUT
FN
AUTO
PRESET
ON/OFF
CONVERT
CURVE
FNIRSI

✓ **2.4-INCH DISPLAY**

✓ **TRANSLUCENT BUTTON**

MINI SIZE
EASY TO CARRY AROUND

/ Just the size of a palm, fits easily in a pocket /

FNIRSI
CONVERT
CURVE
ON/OFF
AUTO
PRESET
OUT
IN

WEIGHT
167G

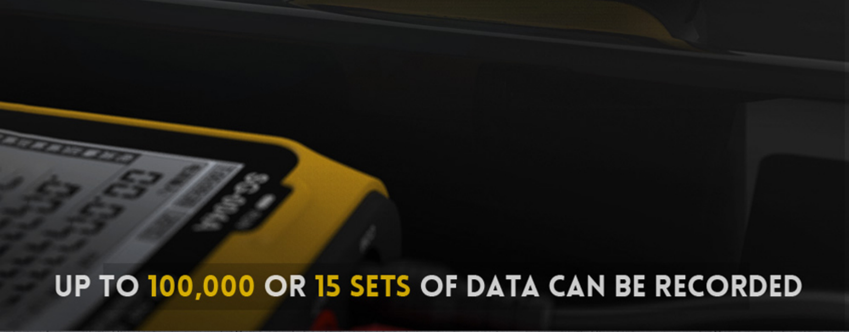
SIZE
112*77*21MM

REAL-TIME CURVE RECORD VIEW

/ The change trend of input and output signals can be displayed through the curve /

RUN
SG-004A
COM OUT IN-/24V IN+
Signal PORT
T:00:06:55
28°C
Prog
49
00.027
00.007
08.000
06.000
04.000
02.000
0.1 Log - T:00:00:00 How/Sum: 000001/000448
0.002 00.000
nt Input:
11
Current Output:
T:01:12:05
28°C
Prog
49
OUT
mA
V
XMT
Hz
mV
24V
ohm
Prot
In_Ac_Op
Convert
Out_Time
Graph
History
PRESET
AUTO
ON/OFF
CURVE
CONVERT
OUT
FN
FNIRSI
Curve Display
History View

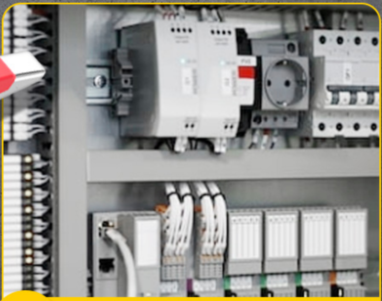
Ser.	IN	OUT	OFF
02	mA	V	Lack
02	mA	V	Lack
02	mA	V	Lack
02	mA	V	Lack



UP TO 100,000 OR 15 SETS OF DATA CAN BE RECORDED

VARIETY OF SIGNALS WITH YOU

/ SG-004A can realize various working conditions and function debugging /



1 **PLC System Debugging**

2 **DCS System Debugging Simulation**

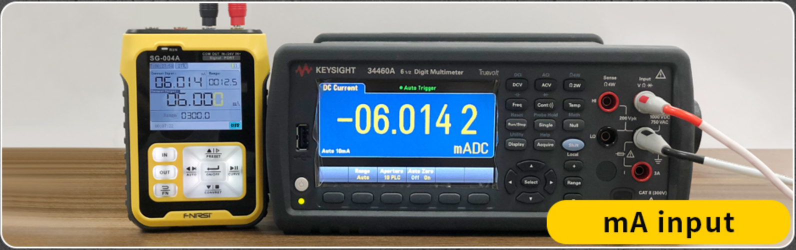
3 Valve Positioner Adjustment

4 Instrumentation Calibration

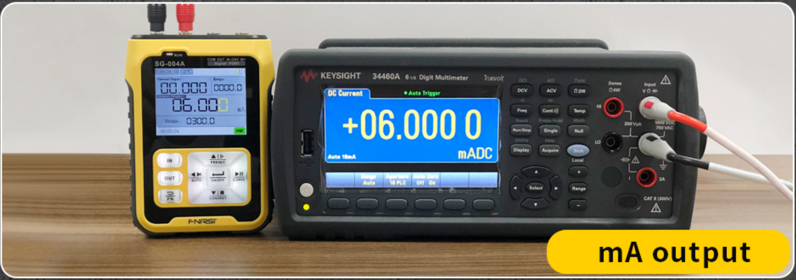
5 Inverter Detection

HIGH
PRECISIONTESTING

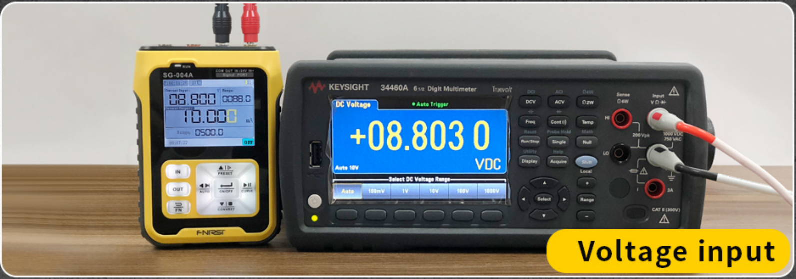
/ The accuracy of each project is measured and shot /


SG-004A
06.014
06.000 mA
KEYSIGHT 34460A 6½ Digit Multimeter
DC Current
-06.014 2 mADC

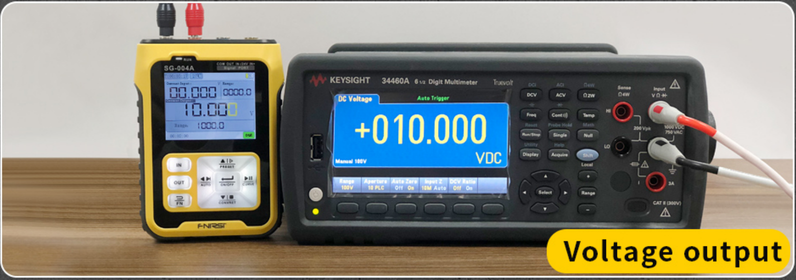
mA input


SG-004A
00.000
06.000 mA
KEYSIGHT 34460A 6½ Digit Multimeter
DC Current
+06.000 0 mADC

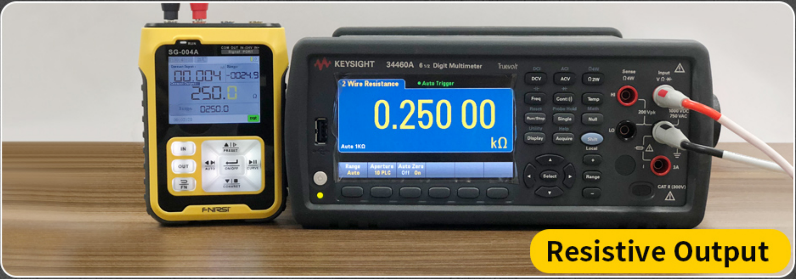
mA output


SG-004A
08.800
10.000
KEYSIGHT 34460A 6½ Digit Multimeter
DC Voltage
+08.803 0 VDC

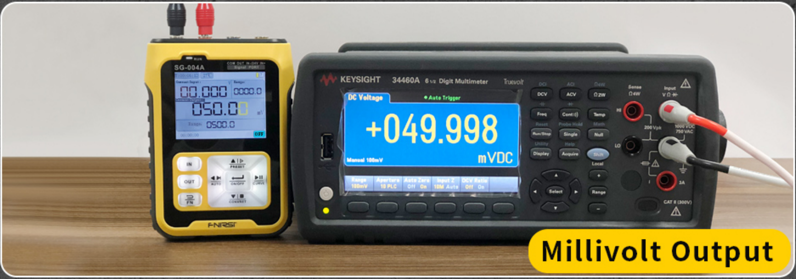
Voltage input


SG-004A
00.000
10.000 V
KEYSIGHT 34460A 6½ Digit Multimeter
DC Voltage
+010.000 VDC

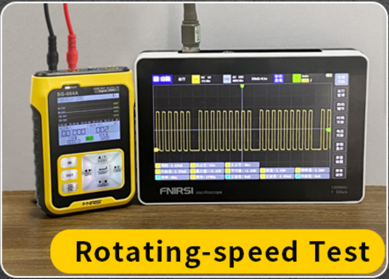
Voltage output


SG-004A
FNIRSI
KEYSIGHT 34460A 6½ Digit Multimeter
2 Wire Resistance
0.250 00
kΩ

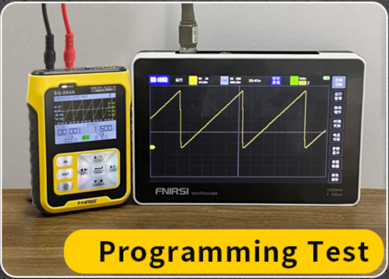
Resistive Output


SG-004A
FNIRSI
KEYSIGHT 34460A 6½ Digit Multimeter
DC Voltage
+049.998
mVDC

Millivolt Output


SG-004A
FNIRSI

Rotating-speed Test


SG-004A
FNIRSI

Programming Test

MILITARY QUALITY
HUMANIZED DESIGN

/ FNIRSI designs every detail carefully /

1. 24H STANDBY

built-in 3000mAh lithium battery,
super long standby time of 24 hours

2. POWER DISPLAY

83
-0024.9
00.000
mA
OFF
0000.0

The screen shows the
remaining battery

3. TYPE-C

Support Type-C
interface fast charging

4. ANTI-DROP

OUT
FN
FNIRSI

ABS hard shell + elastic
silicone surround protection

5. DETAIL CONTROL

Integrated non-slip silicone
stripes to prevent slipping

TECHNICAL PARAMETER

Signal	Scope	Precision	Resolution	Internal impedance
Current（mA）	0~24 mA	±(0.02%+0.003)	0.001mA	100Ω
Voltage（V）	0~24 V	±(0.02%+0.003)	0.001mA	500K
Passive（XMT）	0~24mA	±(0.02%+0.003)	0.001V	100Ω
24V loop	0~24mA	±(0.1%+0.005)	0.01mA	100Ω
FRQ（Hz）	0~9999Hz	±2%	5 digits	1MK
Millivolt（mV ）	-10~100mV	±(0.03%+0.03)	0.01mV	2K
Thermocouple（TC-S）	0~1760°C	±(0.2%+1)	1°C	2K
Thermocouple（TC-B）	0~1810°C	±(0.5%+1)	1°C	2K
Thermocouple（TC-E）	0~990°C	±(0.2%+1)	1°C	2K
Thermocouple（TC-K）	0~1320°C	±(0.2%+1)	1°C	2K
Thermocouple（TC-R）	0~1760°C	±(0.3%+1)	1°C	2K
Thermocouple（TC-J）	0~1190°C	±(0.3%+1)	1°C	2K
Thermocouple（TC-T）	0~390°C	±(0.2%+1)	1°C	2K
Thermocouple（TC-N）	0~1290°C	±(0.2%+1)	1°C	2K
Thermocouple（WRe3/25）	0~2320°C	±(0.2%+1)	1°C	2K
Thermocouple（WRe5/26）	0~2320°C	±(0.2%+1)	1°C	2K
Resistance（ohm）	0~390Ω	±(0.2%+1)	0.1°C	/
Pt100	-200~650°C	±(0.5%+1)	0.1°C	/
Cu50	-20~150°C	±(0.5%+1)	0.1°C	/

Output Signal

Active current	0~24mA
Passive current	0~24mA
Voltage	0~24V
Frequency/ PWM	0~9999Hz
24V loop	0~24mA
mV/ Thermocouple	—10~110mV
Resistance/ Thermal Resistance	0~390Ω

Input Signal

Active current	0~24mA
Voltage	0~24V
Frequency/PWM	0~9999Hz
mV/thermocouple	-10~110mV
Resistance/Thermal Resistance	0~400Ω

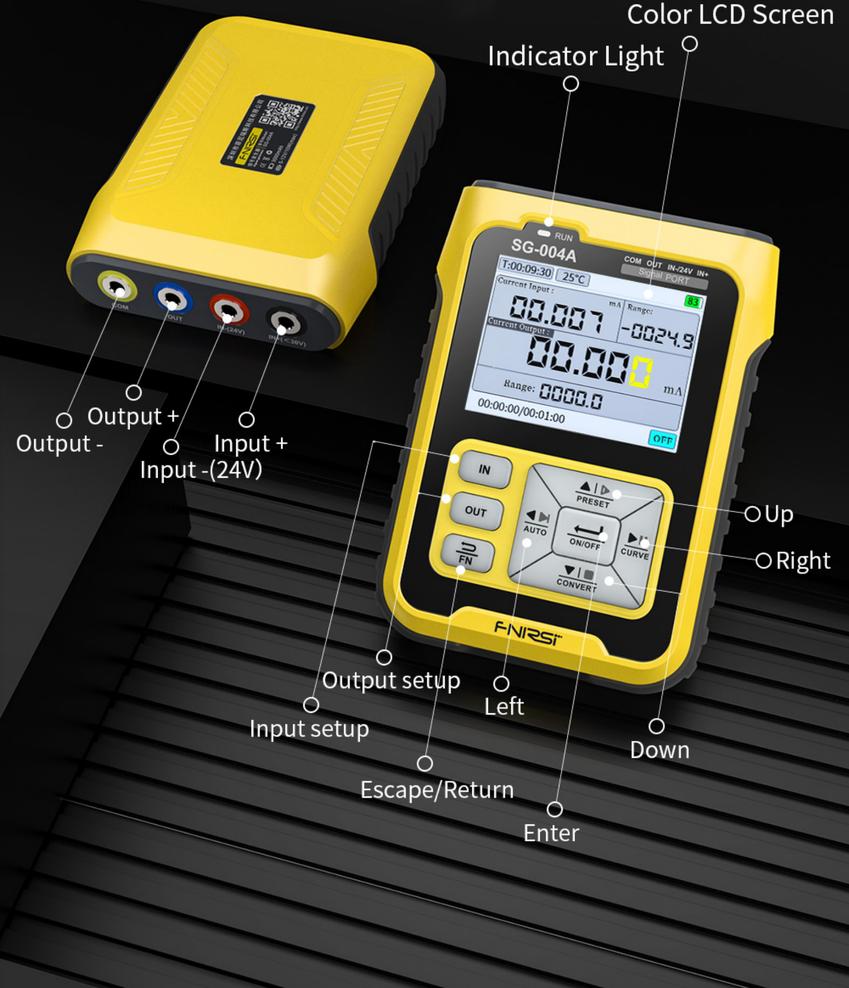
Extended Function

- Program automatic lift output
- Preset output
- Signal linear conversion output
- Real-time curve
- History record
- Output timing
- Modbus slave
- USB Emulated U Disk Firmware Upgrade

BUTTONS & INTERFACES

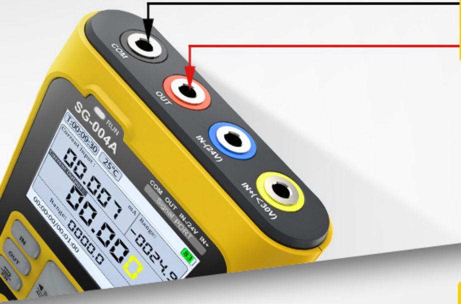
/ Button and interface display instructions /

2.4 Inch TFT Full


Color LCD Screen
Indicator Light
RUN
SG-004A
COM OUT IN-/24V IN+
Signal PORT
T:00:09:30
25°C
Current Input:
00.007
mA
Range:
-0024.9
83
Current Output:
00.000
Range:
0000.0
mA
00:00:00/00:01:00
OFF
IN
OUT
FN
PRESET
AUTO
ON/OFF
CURVE
CONVERT
FNIRSI
COM
OUT
IN-(24V)
IN+(<30V)
Output +
Output -
Input +
Input -(24V)
Up
Right
Output setup
Left
Input setup
Down
Escape/Return
Enter

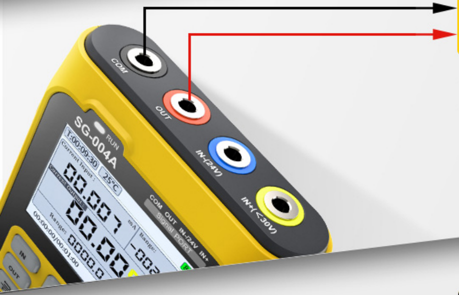
WIRING DISPLAY INSTRUCTIONS

/ Interface wiring display instructions /


COM
OUT
IN-(24V)
IN+(<30V)
SG-004A
RUN

PLC/Process instrument, etc.

All switched by electronic switches
All-round Signal Output:
Current/Voltage/Millivolt/Frequency
/Resistance/Thermal Resistance/
Various Thermocouple Signals

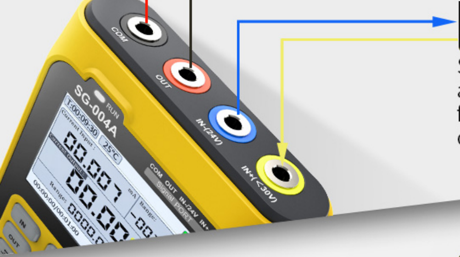

COM
OUT
IN-(24V)
IN+(<30V)
SG-004A
RUN

PLC/Process instrument, etc.

All switched by electronic switches
All-round Signal Output:
Current/Voltage/Millivolt/Frequency
/Resistance/Thermal Resistance/
Various Thermocouple Signals

Valve position given

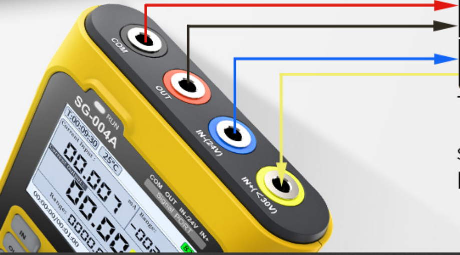
Pneumatic


COM
OUT
IN-(24V)
IN+(<30V)
SG-004A
RUN

Valve position feedback

valves

Switch this input (-), the port to 24V, as the power supply for the valve feedback, the input and output are carried out at the same time


COM
OUT
IN-(24V)
IN+(<30V)
SG-004A
RUN

Valve position given

Valve position feedback

Pneumatic valves

This input (-), the port is closed to 24V, as the negative pole of the input signal, the input and output are performed at the same time

TECHNOLOGY AND PARAMETERS

/ Description of technology and basic parameters /

112mm
SG-004A
RUN
COM OUT IN-/24V IN+
Signal PORT
T:00:09:30
25°C
Current Input :
00.007 mA
Range:
-0024.9
Current Output :
00.000 mA
Range: 0000.0
00:00:00/00:01:00
83
OFF
IN

OUT
FN
PRESET
AUTO
ON/OFF
CURVE
CONVERT
FNIRSI
77mm
21mm

BASIC PROPERTIES

NAME	Signal generator
MODEL	SG-004A
SIZE	L82*W27*H112mm
N.W	167g
COLOR	Black + yellow
LCD SIZE	2.4in

POWER PROPERTIES

INTERFACE	Type-C
INPUT	5V-12V/10W(Max)
BATTERY	3000mAh
STANDBY TIME	24h

PACKING LIST

SG-004A Signal Generator
Type-C charging cable
Four alligator test clips
User's manual
Certificate

PACKING LIST

/ The package you will receive /

① 004A Signal Generator *1

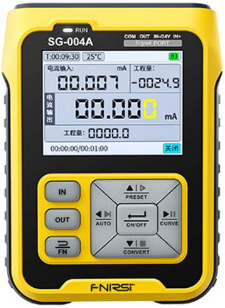
② Alligator Test Clips *4

③ USB charger *1

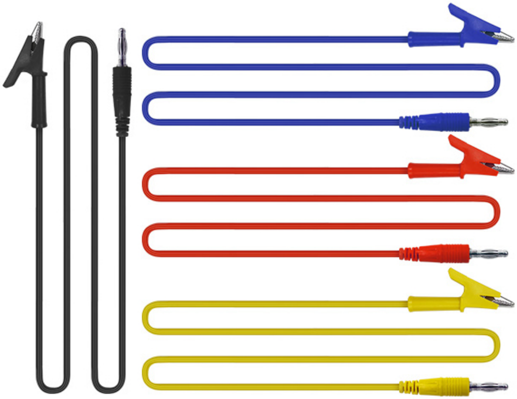
④ User Manual *1

⑤ Type-C Cable *1

⑥ Packing Box *1


RUN
SG-004A
COM OUT IN-/24V IN+
Signal PORT
T:00:09:30
25°C
电流输入:
mA
工程量:
00.007
-0024.9
电流输出
00.000
mA
工程量: 0000.0
00:00:00/00:01:00
关闭
IN
OUT
FN
PRESET
AUTO
ON/OFF
CURVE
CONVERT
FNIRSI

①

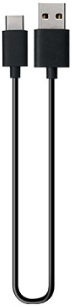


②

③

SG-004A
OPERATING MANUAL
Multi-functional Signal Generator
SG-004A
IN
OUT
FN
PRESET
AUTO
ON/OFF
CURVE
CONVERT
FNIRSI

④



⑤

FNIRSI
Historical curve
Current Detection
Voltage Detection
Program Output
SG-004A
IN
OUT
FN
PRESET
AUTO
ON/OFF
CURVE
CONVERT
FNIRSI
SIGNAL
GENERATOR
SG-004A

⑥